Work Orde December-20-12				*947	779*						Page 1	
Revision, ID:	D3202-1	27 8-8		Accept	*ฟั้90ก	040	100)* s	Setup Star	ı	S1* S2*	
Start Date: Required Date: Reference:	12/19/12 12/19/12	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item I Customer:	ID:						- · · · · · · · · · · · · · · · · · · ·
Approvals:	Process Pla	in:	Date:	Tooling: SPC (Y/N):		ate:		F	Run Star Sto	" [V	R1* R2*	
Sequence ID/ Work Center II	0	Operation Description	en en jage entregeniste vers deutsche gebeut deutsche entregeniste der ein	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Draw Nbr	Rev	ision Nbr				· · ·		· · · · · · · · · · · · · · · · · · ·				
D3202	Rev	D										
100				0.00								Tay k
100 Waterjet FLOW CNC Waterjet		Memo 1-Cut as per Dwg Rev: Prog Rev: 2-Deburr if	0	0.00	·			14	_ 0		Jm13-0	7-F (

0.00

1 1 **\\^*QC
Quality Control

QC2- Inspect parts off machine FAI/FAIB

Memo

												DQA:	Dat	e:	
NCR:	Yes	/ No				WORK ORDER NON-C	10:	VFORM	ANCE / UPE	DATE		_		·	
											Q	(A Closed:	Dat	te:	
Work Ord	er:					DISPOSITION				AGAINST DE	EP/	ARTMENT/	PROCESS		
Part f	٠ . No.	-				Rework Scrap Use-as-is Work Order Update		t Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite			Water Jet J. Eng. Coor. e/Packaging Supplier		Engineering Quality Other
Root					Descri	otion of work order update	Ī	nitial	Act	ion	Τ	Sign &			
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Descr	iption	┸	Date	Verification	٦	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
							AUL	T CATE	GORY						
Landi	$\overline{}$	iear Bending				General Bend		Grain				Ovalized			Pressure/Forced
	-	Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa			-	Over/Under		_	Temperature/Cure
		Cracks			<u> </u>	Broken/Damaged	L	1	on Incomplete		┥.	art Incorrec		<u> </u>	Weld
	-	Crushed/	Crimped.			Burrs	L	4	ions Incomplete/L	Jnclear	┥.	Part Lost/Mi	ssing	L	Wrong Stock Pulled
	-	Cuffs				Contamination	_	Mainte		_	┥.	Part Moved			
		Heat Trea			-	Countersink	<u> </u>	Mislabe			→	Positioned W		_	1
	-	Inspection		Tube		Cut Too Short	_	Misread	I	L.	٦	ower Loss/	Surge	_	Other
		Ripples in	Bend		I	Drill Holes	1	Offset							

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work	Order	ID	94779
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December-20-1.		Page 2
Item ID: Revision ID: Item Name:	Setup Start *	NS1* NS2*
Start Date: Required Date Reference:		
Approvals:	Run Start *	VR1* VR2*
Sequence ID/ Work Center I	t Reject Reject Qty Numb	
*120 *120* QC Quality Control	1307.03	
*130	76 B	3-7-9
HandFinish Hand Finishing		
140 *140* Powdercoat Powder Coating	JM-L	13/07/0
140 Powdercoat	SM	1/

MISISJN

	1		DQA:	Date:
			-	
CR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE		

		*							QA Closea:	Date	:
Work Orde	er:	ļ			DISPOSITION			AGAINST DE	PARTMENT	PROCESS	
Part N					Rework Scrap		Skid-tube Machining	Crosstube Small Fab	Pro	Water Jet d. Eng. Coor.	Engineering Quality
Taret	•••.				Use-as-is	: I	noforming	Finishing		e/Packaging	Other
NCR N	do.				Work Order Update	Illen	Large Fab	Composite	Nec/3to	Supplier	
iii.	···				Work Order opdate	1	raige rab	composite		oupplie.[
Root				Descri	ption of work order update	Initial	Act	tion	Sign &	/	
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling				i							
Operator					•						
Material											
Setup											
Other _]					
Process ³											
Supplier											
Training											
Unapproved											
					F.	AULT CATE	GORY				
Landi	ng Gear				General	_			-		_
	Bending				Bend	Grain			Ovalized	L	Pressure/Forced
	Centre N	ot Conce	ntric to (o/s [_	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspec	tion Incomplete		Part Incorre	ct _	Weld
	Crushed/	Crimped.			Burrs	Instruc	tions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cuffs				Contamination	Maint	enance		Part Moved		
	Heat Trea	at			Countersink	Mislab	eled		Positioned V	Vrong _	<u></u>
	Inspectio	n Strip in	Tube		Cut Too Short	Misrea	d		Power Loss/	Surge	Other
	Ripples ir	n Bend			Drill Holes	Offset					
	Torque V	Vaves in E	xtrusion	n [Drawing	Out of	Calibration				
	Turning S	Sequence			Finish	Out of	Sequence				
	Wave/Tw	vist in Tul	oe .		Folio	Outsid	e Dimensions				

Work Orde				*947	779*							Page 3	
Item ID: Revision ID:	D3202-1	design and the second of the s		Accept	*N900	040	100)*	Setup	Start Stop	*N:	S1*	=
	Cover 12/19/12 12/19/12	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item I Customer:	ID:				Sock	"N	S7"	
Approvals:	Process Pla	n:	Date:	Tooling:	D:	ate:			Run	Start	*N	R1*	
	QC:		Date:	SPC (Y/N):	D:	ate:				Stop	*N	R2*	
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp	
150		QC3- Inspect Part Finish		0.00					./	1	_		
150 QC Quality Control		Memo		0.00				_/4_	Ø		B6	-9	ار >
			/										
160		Identify as per dwg & Sto	ck Location: 8734	11 1 0.00				. ,				~	
160 Packaging		Memo		0.00				-/4:	<u> </u>				
Packaging		меню									j	3-7-	/
170		QC21- Final Inspection -	Work Order Release	0.00						131	1/11	20	
170		Memo		0.00						12/	<u>//''</u>		

Quality Control

p13-0710

DQA:	Date:		

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

									QA Closed:	Date	:	
Work Orde	r:		. -		DISPOSITION		-	AGAINST DE	PARTMENT	/PROCESS		
Part No	0.				Rework Scrap Use-as-is Work Order Update	I	Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet Enginee Prod. Eng. Coor. Qu Rec/Store/Packaging O Supplier		
Root				Descri	iption of work order update	Initial	Ac	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	cription	Date	Verification	QC Inspector	
Doc/Data												
quip/Tooling												
Operator						1						
Material [
Setup												
Other												
Process									:			
Supplier		•										
Training												
Unapproved												
					F	AULT CATE	GORY					
Landin	g Gear				General				_			
L	Bending				Bend	Grain			Ovalized	L	Pressure/Forced	
_	Centre No	ot Conce	ntric to (o/s	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure	
Ĺ	Cracks				Broken/Damaged	Inspect	tion Incomplete		Part Incorre	ct	Weld	
	Crushed/	Crimped.			Burrs	Instruc	tions Incomplete,	/Unclear	Part Lost/M	issing	Wrong Stock Pulled	
	Cuffs				Contamination	Maint	enance	<u></u>	Part Moved			
	Heat Trea	t			Countersink	Mislab	eled		Positioned \	Wrong		
_	Inspection	n Strip in	Tube		Cut Too Short	Misrea	d		Power Loss/	'Surge	Other	
	Ripples in	Bend			Drill Holes	Offset						
	Torque W	aves in E	xtrusio	n _	Drawing	Out of	Calibration					
L	Turning S	-			Finish	Out of	Sequence					
	Wave/Tw	ist in Tub	e		Folio	Outsid	e Dimensions					

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID:

94779

Parent Item:

Comments:

D3202-1

Parent Item Name:

Cover

IPP Rev:B IPP Rev:C No Longuer Made In House Now on Waterjet

05-11-06 JLM 07-04-18 JLM

Start Date: 12/19/12 Start Qty: 10.00

Required Qty: 10.00

Required Date: 12/19/12

Page 1

:	IPP Rev:D	chg to revC as per	dwg	08-04-21	DD verified b	y:JLM							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M5052H32S.032 5052-H32 .032 Sheet		Purchased	No			100	sf	241.7000	1.551	16326316 20			Jm13-07-0
				<u>Location</u>		Loc Qty	Lo	c Code					
				MAT020		106							*
				12	1660	106							
				MAT022		135.7							
				11	2664	10.4							
				11	5638	12							
				11	6657	9.5							
				11	7798	34.8							
				12	1030	46							
•				12	1040	23							
				()	555				125	5552			

125552

NCR: Y	es /	No				WORK ORDER NON-	CON	NFORM	MANCE / UPI		•		
											QA Closed:	Date:	
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT/	PROCESS	
						Rework	7 		Skid-tube	Crosstube		Water Jet	Engineering
Part N	lo.					Scrap	1		Machining	Small Fab	Prod	d. Eng. Coor.	Quality
						Use-as-is	1 1		noforming	Finishing	Rec/Stor	e/Packaging	Other
NCR N	lo					Work Order Update			Large Fab	Composite		Supplier	
				T	Di	-A:		'&' 1	Λ-4	L	Ciam 0	· (-a.	
Root	. .		Chan			ption of work order update	}	nitial		tion	Sign &	Vorification	OCInchastor
Cause		ate	Step	Qty		or Non-conformance	Cn	ief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data	-												
Equip/Tooling	\dashv												
Operator Material	-												
Setup	\dashv												
Other	\dashv									•			
Process	\dashv	İ											
Supplier	-				•								
Training	\dashv								•				
Unapproved													
						F	AUL	T CATE	GORY				
Landir	ng Gea	•				General		_	•		_		
	Bei	nding				Bend		Grain			Ovalized		Pressure/Forced
	Cei	ntre No	t Concer	ntric to (o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cra	cks				Broken/Damaged		Inspecti	ion Incomplete		Part Incorred	it	Weld
İ	Cru	shed/C	crimped,			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cut	fs				Contamination		Mainte	enance		Part Moved		
	He	at Treat	İ			Countersink		Mislabe	eled		Positioned V	Vrong	·
	Ins	pection	Strip in	Tube		Cut Too Short		Misread	t		Power Loss/	Surge	Other
	Rip	ples in	Bend			Drill Holes		Offset		-			
	To	que W	aves in E	xtrusion	ո [Drawing		Out of 0	Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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DART AEROSPACE LTD	Work Order:	94779
Description: Cover	Part Number:	D3202-1
Inspection Dwg: D3202 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.38	+0.006/-0.001	0.880	_		V	Jamos
0.63	+/-0.030	0.648	_		ν	
3.38	+/-0.030	3.386	_		V	
2.40	+/-0.030	2.400"	-		V	
0.82	.+/-0.030	D.824"	_		V	
73.84	+/-0.030	73.84"	_		丁	Jemo 6
74.50	+/-0.030	74.80"	_		T	
0.032	+/-0.010	0.030	_		V	
4.03 Pitch	+/-0.030	4.030"	-		V	
				OSU OSU		

Measured by:	Jan .	Audited by:	Q. M	Preliminary Approval:	
Date:	13.07.03	Date:	13-07.23	Date:	

Date	Change	Revised by	Approved	
04.02.25	New Issue	KJ/RF		
06.09.28	Revised per Rev. B1	KJ/JLM		
08.07.23	Dimensions updated per Dwg Rev C	KJ/DD (C	0/	
12.05.14	Dwg Rev updated	KJ X	CLII	
	04.02.25 06.09.28 08.07.23	04.02.25 New Issue 06.09.28 Revised per Rev. B1 08.07.23 Dimensions updated per Dwg Rev C	04.02.25 New Issue KJ/RF 06.09.28 Revised per Rev. B1 KJ/JLM 08.07.23 Dimensions updated per Dwg Rev C KJ/DD	





